

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/075547 A1

(51) International Patent Classification⁷: **C08J 9/16**, 9/28

(21) International Application Number:
PCT/EP2004/014777

(22) International Filing Date:
23 December 2004 (23.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0401950.1 28 January 2004 (28.01.2004) GB

(71) Applicant (for AE, AG, AU, BB, BW, BZ, CA, CY, EG, GB, GD, GH, GM, IE, IL, KE, LC, LK, LS, MN, MW, NA, NZ, OM, PG, SC, SD, SG, SL, SZ, TT, TZ, UG, VC, ZA, ZM, ZW only): **UNILEVER PLC [GB/GB]**; Unilever House, Blackfriars, London Greater London EC4P 4BQ (GB).

(71) Applicant (for AL, AM, AT, AZ, BA, BE, BF, BG, BJ, BR, BY, CF, CG, CH, CI, CM, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GA, GE, GN, GQ, GR, GW, HR, HU, ID, IS, IT, JP, KG, KP, KR, KZ, LR, LT, LU, LV, MA, MC, MD, MG, MK, ML, MR, MX, MZ, NE, NI, NL, NO, PH, PL, PT, RO, RU, SE, SI, SK, SN, SY, TD, TG, TJ, TM, TN, TR, UA, UZ, VN, YU only): **UNILEVER NV [NL/NL]**; Weena 455, NL-3013 AL Rotterdam (NL).

(71) Applicant (for IN only): **HINDUSTAN LEVER LIMITED [IN/IN]**; Hindustan Lever House, 165/166 Backbay Reclamation, Maharashtra, Mumbai 400 020 (IN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COOPER, Andrew, Ian [GB/GB]**; University of Liverpool, Department of Chemistry, Crown Street, Liverpool Merseyside CH69 3BX (GB). FOSTER, Alison, Jayne [GB/GB]; Unilever R & D Port Sunlight, Quarry Road East, Bebington Merseyside CH63 3JW (GB). RANNARD, Steven, Paul [GB/GB]; Unilever R & D Port Sunlight, Quarry Road East, Bebington Merseyside CH63 3JW (GB). ZHANG, Haifei [GB/GB]; University of Liverpool, Department of Chemistry, Crown Street, Liverpool Merseyside CH69 3BX (GB).

3BX (GB). FOSTER, Alison, Jayne [GB/GB]; Unilever R & D Port Sunlight, Quarry Road East, Bebington Merseyside CH63 3JW (GB). RANNARD, Steven, Paul [GB/GB]; Unilever R & D Port Sunlight, Quarry Road East, Bebington Merseyside CH63 3JW (GB). ZHANG, Haifei [GB/GB]; University of Liverpool, Department of Chemistry, Crown Street, Liverpool Merseyside CH69 3BX (GB).

(74) Agent: **FINNIE, Nicholas**; Unilever Intellectual Property Group, Patent Department, Colworth House, Sharnbrook, Bedford Bedfordshire MK44 1LQ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/075547 A1

(54) Title: POROUS BODIES AND METHOD OF PRODUCTION THEREOF

(57) Abstract: Water dispersible or water soluble porous bodies comprising a three dimensional open-cell lattice containing (a) 10 to 95% by weight of a water soluble polymeric material and (b) 5 to 90% by weight of a surfactant, said porous bodies having an intrusion volume as measured by mercury porosimetry of at least about 3 ml/g with the proviso that said porous bodies are not spherical beads having an average bead diameter of 0.2 to 5mm.